

## A New Species of the Genus *Pirata* SUNDEVALL (Araneae: Lycosidae) from Japan

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田中穂積<sup>1)</sup>: 日本産カイゾクコモリグモ属 (クモ目:  
コモリグモ科) の 1 新種

**Abstract** A new species of the genus *Pirata* from Hokkaido, Japan, is described and illustrated under the name of *P. shibatai*.

I had an opportunity to examine some specimens of a spider of the genus *Pirata*, which were collected from Hokkaido. The result of the examination revealed that they belong to a new species which is described in this paper.

The abbreviation used in this paper are as follows: AER, anterior eye row; ALE, anterior lateral eye; AME, anterior median eye; PMR, posterior median row.

Before going further, I wish to express my sincere thanks to Ms. Mayumi MATSUDA, Hokkaido, for her useful information about spiders of Hokkaido and offering valuable specimens used in this paper. Further, I wish to thank cordially Dr. Torbjörn KRONESTEDT, the curator of spider's collection of the Swedish Museum of Natural History, for the loan of materials

### *Pirata shibatai* sp. nov.

(Figs. 1–4)

*Male* (holotype). Measurements (mm). Total length 6.65. Carapace length 3.43; width 2.45. Abdomen length 3.22; width 1.96. Legs as in Table 1.

Carapace yellowish brown, with brown markings and with no lines along

Table 1. Length of legs of *Pirata shibatai* sp. nov. (♂: in mm).

Leg	Femur	Patella & Tibia	Metatarsus	Tarsus	Total
I	2.52	3.01	2.24	1.19	8.96
II	2.38	2.80	2.03	1.05	8.26
III	2.17	2.52	1.96	1.05	7.70
IV	2.94	3.64	3.15	1.33	11.06

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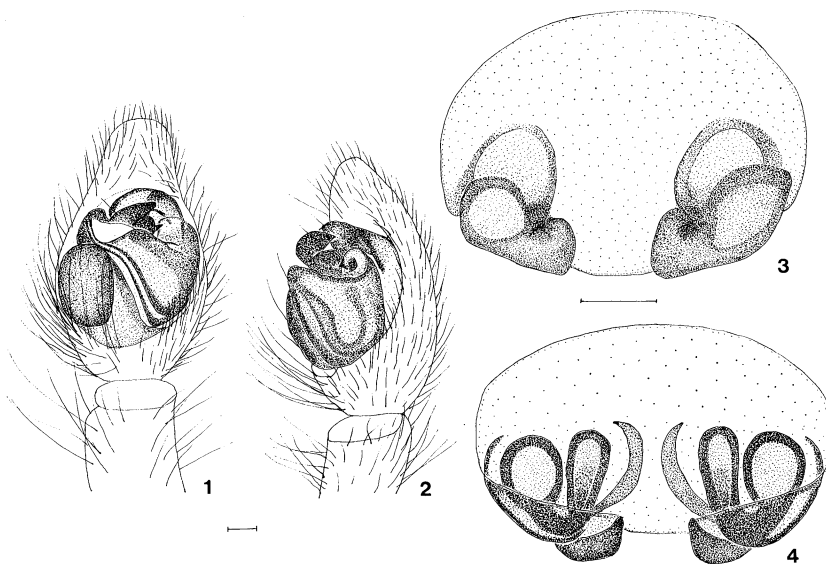
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margin; V-shaped mark distinct, greyish brown; light yellow lateral bands separated from margins by dark brown bands. AER shorter than PMR; AME larger than ALE; AME separated from each other by about half the diameter of AME, and from ALE by length being smaller than half the diameter of AME; AER procurved. Clypeus yellowish brown, shorter than half the diameter of AME. Chelicerae yellowish brown. Maxillae light yellowish brown. Labium greyish brown. Sternum light yellowish brown, with dark brown patches along margin. Abdomen reddish brown; a lanceolate median mark very distinct; lateral sides reddish brown; venter reddish brown, with white pubescence. Legs unicolorous, dark yellowish brown. Palps: tarsal organs (Fig. 1) with a robust median apophysis tapered at end; median apophysis in retrolateral view with cuneiform process at the upper part as shown in Fig. 2.

*Female* (allotype). Measurements (mm). Total length 8.33. Carapace length 3.78; width 3.01. Abdomen length 4.55; width 3.50. Legs as in Table 2.

Table 2. Length of legs of *Pirata shibatai* sp. nov. (♀: in mm).

Leg	Femur	Patella & Tibia	Metatarsus	Tarsus	Total
I	2.94	3.71	2.38	1.19	10.22
II	2.66	3.29	2.24	1.19	9.38
III	2.66	3.15	2.38	1.12	9.31
IV	3.57	4.55	3.15	1.12	12.39



Figs. 1–4. *Pirata shibatai* sp. nov.—1. Male palp (ventral view). 2. Male palp (retrolateral view). 3. Epigynum (ventral view). 4. Epigynum (dorsal view). (Scales: 0.1 mm.)

Different from the male as follows: Carapace reddish brown. AER weakly procurved. Chelicerae reddish brown. Sternum no patches along margin. Abdomen yellowish brown, with blackish grey markings; a lanceolate median mark faint. Legs and palps reddish brown. Epigynum with ear-shaped structure at lateral sides (Fig. 3); two pairs of round, and long, slender spermathecae present as shown in Fig. 4.

*Variation* (mm) in both the sexes. Total length ♂ 5.81–7.42, ♀ 7.84–9.80. Carapace length ♂ 3.22–3.92, ♀ 3.43–4.06; width ♂ 2.31–2.80, ♀ 2.52–3.01. Abdomen length ♂ 3.22–3.50, ♀ 4.34–6.09; width ♂ 1.96–2.10, ♀ 3.01–4.06. The color varies from yellowish brown to blackish grey. In some females, the lanceolate median mark is absent.

*Type series.* Holotype: ♂, Ohtsu-shitchi, Toyokoro-cho, Hokkaido, 24. VII.–8. VIII. 1993 (K. SHIBATA). Allotype: ♀, same data as for the holotype. Paratypes: 2♂, 3♀, same locality as for the holotype, 27. VI.–11. VII. 1993 (K. SHIBATA); 1♂, 1♀, same locality as for the holotype, 11–24. VII. 1993 (K. SHIBATA). The holotype and allotype are deposited in the collection of the Arachnological Society of Japan, Osaka, and paratypes are preserved in my private collection.

*Distribution.* Japan (known only from the type locality).

*Remarks.* This species is very closely related to the Holarctic *Pirata piraticus* (CLERCK, 1758) and European *P. tenuitarsis* SIMON, 1876 in the shape of male palp and epigynum. From *piraticus* and *tenuitarsis*, the new species can be distinguished by the presence of the dark brown bands in the light lateral bands on carapace.

*Etymology.* The specific name is given after Mr. Kouichi SHIBATA, Hokkaido.

## 摘 要

北海道豊頃町大津湿地より得られたコモリグモ科カイゾクコモリグモ属の1新種を *Pirata shibatai* sp. nov. エゾカイゾクコモリグモ (新称) と命名して記載した。本種は全北区に広く分布する *P. piraticus* およびヨーロッパから報告されている *P. tenuitarsis* に近似するが、頭胸部の側斑の有無によって容易に区別できる。

## References

- CLERCK, C., 1758 [1757]. Aranei Suecici, Descriptionibus et Figuris Oeneis Illustrati, ad Genera Subalterna Redacti Speciebus Ultra LX Determinati. 154 pp. Stockholmiae.  
SIMON, E., 1876. Les Arachnides de France. Tom 3. 360 pp. Paris.